

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

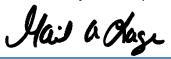
TestAmerica Job ID: 490-53721-1

Client Project/Site: Everett Terminal - Outfall 01 A

For:

Exxon Global Remed. Grp 52 Beacham Street Everett, Massachusetts 02149

Attn: Mallory Stanhope



Authorized for release by: 5/27/2014 1:39:10 PM

Gail Lage, Senior Project Manager (615)301-5741 gail.lage@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal - Outfall 01 A TestAmerica Job ID: 490-53721-1

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Sample Summary

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-53721-1	Outfall 01 A-TSS - 1	Wastewater	05/22/14 14:40	05/23/14 08:15

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Case Narrative

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

Job ID: 490-53721-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-53721-1

Receipt

The samples were received on 5/23/2014 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 490-53721-1

Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

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Client Sample Results

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

Client Sample ID: Outfall 01 A-TSS - 1

Lab Sample ID: 490-53721-1 Date Collected: 05/22/14 14:40

Matrix: Wastewater

Date Received: 05/23/14 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	6.21		1.05	0.737	mg/L			05/23/14 12:59	1

QC Sample Results

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Duplicate

Client Sample ID: Duplicate

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-164561/1

Matrix: Water

Analysis Batch: 164561

MB MB

Analyte Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed <0.700 1.00 0.700 mg/L 05/23/14 12:59 **Total Suspended Solids**

Lab Sample ID: LCS 490-164561/2

Matrix: Water

Analysis Batch: 164561

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits **Total Suspended Solids** 100 99.60 mg/L 100 90 - 110

Lab Sample ID: 490-53638-C-1 DU

Matrix: Water

Analysis Batch: 164561

DU DU RPD Sample Sample Limit Result Qualifier Result Qualifier Unit **RPD** Total Suspended Solids 68.4 70.80 20 mg/L

Lab Sample ID: 490-53714-M-1 DU

Matrix: Water

Analysis Batch: 164561

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit Limit Total Suspended Solids 149 150.0 mg/L 0.7 20

TestAmerica Nashville

QC Association Summary

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

General Chemistry

Analysis Batch: 164561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53638-C-1 DU	Duplicate	Total/NA	Water	SM 2540D	
490-53714-M-1 DU	Duplicate	Total/NA	Water	SM 2540D	
490-53721-1	Outfall 01 A-TSS - 1	Total/NA	Wastewater	SM 2540D	
LCS 490-164561/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-164561/1	Method Blank	Total/NA	Water	SM 2540D	

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Lab Chronicle

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

Lab Sample ID: 490-53721-1

Matrix: Wastewater

Client Sample ID: Outfall 01 A-TSS - 1

Date Collected: 05/22/14 14:40 Date Received: 05/23/14 08:15

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Į	Total/NA	Analysis	SM 2540D		1	950 mL	1000 mL	164561	05/23/14 12:59	CRM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Method Summary

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-53721-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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TestAmerica Job ID: 490-53721-1

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal - Outfall 01 A

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-15
Arkansas DEQ	State Program	6	88-0737	04-25-15
California	NELAP	9	1168CA	10-31-14
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
lowa	State Program	7	131	05-01-14 *
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-15
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-14
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-09-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	03-31-15
North Carolina DENR	State Program	4	387	12-31-14
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-15
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-14
South Carolina	State Program	4	84009 (002)	02-23-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-15
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

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^{*} Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville



COOLER RECEIPT FORM



190-53721 Chain of Custody

Cooler Received/Opened On 5/23/2014 @ 0815	
1. Tracking # 9854 (last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 17960357	
2. Temperature of rep. sample or temp blank when opened: 1, 3 Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES NONA
4. Were custody seals on outside of cooler?	ESNONA
If yes, how many and where:)
5. Were the seals intact, signed, and dated correctly?	ESNONA
6. Were custody papers inside cooler?	€8NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	<u>Cu</u>
7. Were custody seals on containers: YES and Intact	YESNO
Were these signed and dated correctly?	YESNO
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper	Other None
9. Cooling process: Ice Ice-pack (ce (direct contact)) Dry ice	Other None
10. Did all containers arrive in good condition (unbroken)?	ÆŠNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	YES).NONA
12. Did all container labels and tags agree with custody papers?	ESNONA
13a. Were VOA vials received?	YES.,NONA
b. Was there any observable headspace present in any VOA vial?	YESNO.
14. Was there a Trip Blank in this cooler? YESNO.	e #
I certify that I unloaded the cooler and answered questions 7-14 (intial)	<u>mon</u>
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	YESNONA
b. Did the bottle labels indicate that the correct preservatives were used	YESNONA
16. Was residual chlorine present?	YESNO
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	msm
17. Were custody papers properly filled out (ink, signed, etc)?	YES NONA
18. Did you sign the custody papers in the appropriate place?	(ES)NONA
19. Were correct containers used for the analysis requested?	(PES)NONA
20. Was sufficient amount of sample sent in each container?	(ES)NONA
Lertify that I entered this project into LIMS and answered questions 17-20 (intial)	msm
Lertify that I attached a label with the unique LIMS number to each container (intial)	msm
21. Were there Non-Conformance issues at login? YES. (NO) Was a PIPE generated? YES. (NO)	آ0)#

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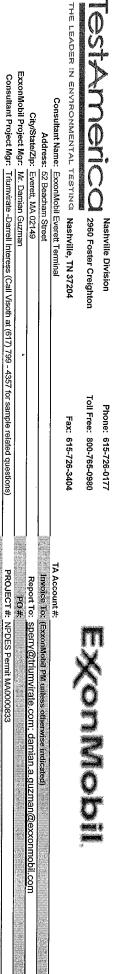
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Prepared vsreng 01A



Consultant Telephone Number: 617-281-2802
Sampler Name: (Print) Vrs. M. 7248

Fax No.: 617-381-2954

PROJECT #: NPDES Permit MA0000833

Facility ID #

Site Address SAME

City, State, Zip

Regulatory District (CA)

Sampler Signature: ___

		Relinquished by:	C	ノンメマ	Relinquished by:		standard protocol,	Laboratory case narative to NELAC Institute	Comments/Special Instructions:						Outfall 01 A-TSS - 3	Outfall 01 A-TSS - 2	Outfall 01 A-TSS - 1	May 2014 Sample ID or Field ID			
		Date	1100	という) Date									,	R		2.33.14 14HD	Date Sampled Time Sampled		(7
-		Time		_ _	Time												<u>8</u>	No. of Containers Shipped			_
			•	<u> </u>	_										×	×	×	Grab			
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		stAme	Z			İ												Methanol	_	-	ĺ
		ž.	3	`	•												_	Sodium Bisulfate HCI (Blue Label)	_		ĺ
											-	-					-	NaOH (Orange Label)	Perservative		
										-		\vdash	\vdash					H ₂ SO ₄ Plastic (Yellow Label)	erva		ı
																		H₂SO₄ Glass(Yellow Label)	tive		ı
																		HNO₃ (Red Label)			ı
						ļ				L.,	ļ				×	×	×	None (Black Label)			
			L										<u> </u>		ļ.,			Groundwater			
			À												×	×	×	Wastewater			
		Date	5.23.14		Date										Ī	Ī		Drinking Water	Matrix		
		ite	3		te										2	le I		Sludge	tix		
						l									ð	ð		Soll			
															ar	rar		Other (specify):			
		Time	0815		Time										HOLD for analysis	HOLD for analysis	×	TSS 4 SM 2540D	Monthly		
																			Η̈́Jy		
īA Pī	by p	consi	* ft wi	Level 2	QC D				Labo									2.81.1.3855.3			
TA Project Manager	by phone or tax that a rush sample will be submitted.	consultant to notify the TestAmerica Project Manager	 It will be the responsibility of ExxonMobil or its 	2	QC Deliverables (please circle one)	\OC	Sam	Tem	Laboratory Comments:									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e e		
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	sample	(Americ	of Exx	Level 3	rcle on	dspac	s Intac	Rece											_	Analyze For:	
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		Flow (MGD):													L Plastic	1 L Plastic	1 L Plastic				
11	pH;	w (MG				~	~							_	stic	stic				Ц	
IRC.	#	9):	Car														1 day	RUSH TAT (Pre-Schedule) *			
				Other														TAT request (in Bus. Days)			
				er.		z	z											Fax Results (yes or no)			
																		Due Date of Report			

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Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp Job Number: 490-53721-1

Login Number: 53721 List Source: TestAmerica Nashville

List Number: 1 Creator: McBride, Mike

oreator. McDride, Mike		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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